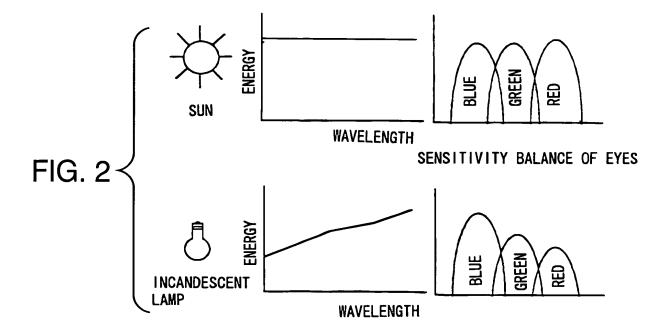


FIG. 1



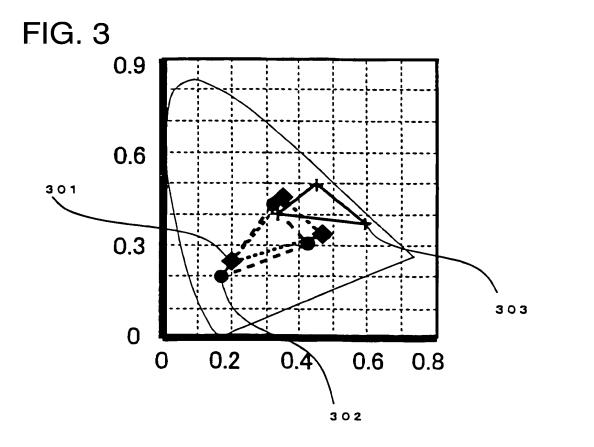
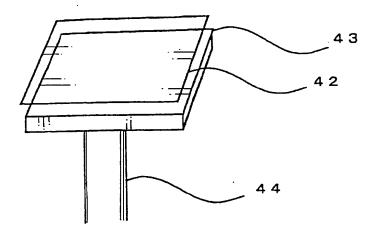


FIG. 4



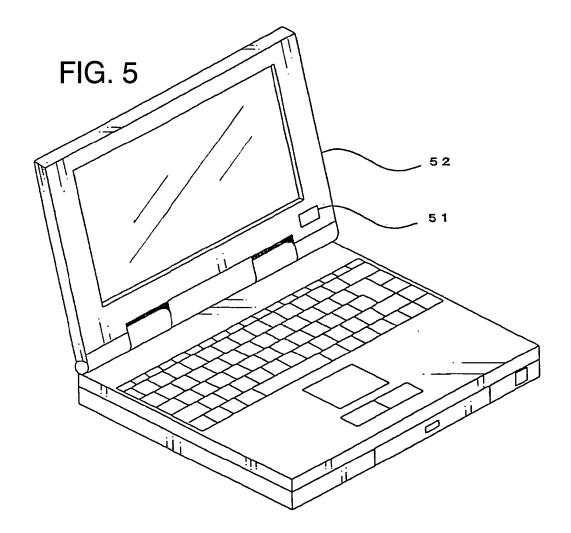


FIG. 6

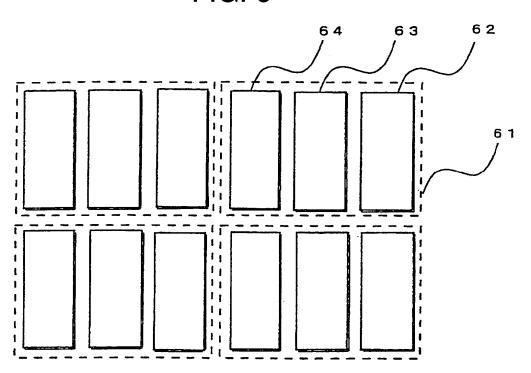


FIG. 7

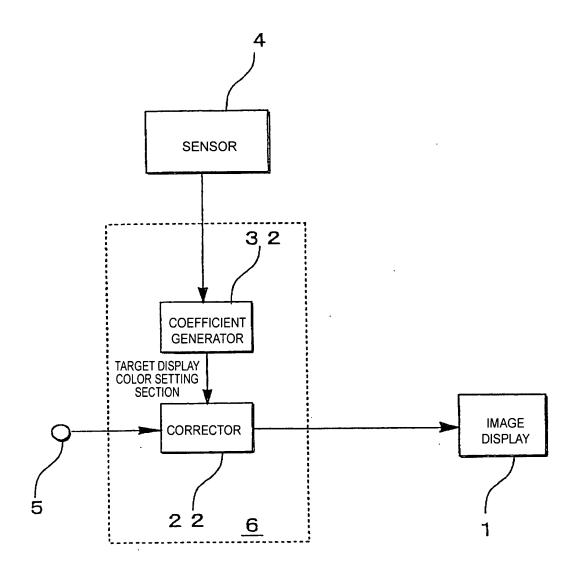


FIG. 8

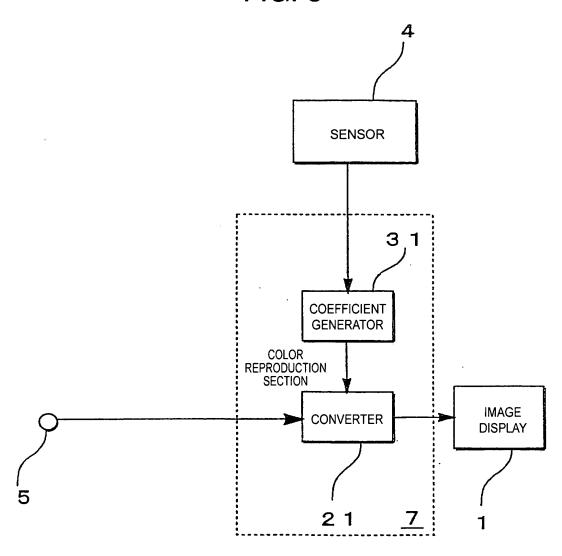
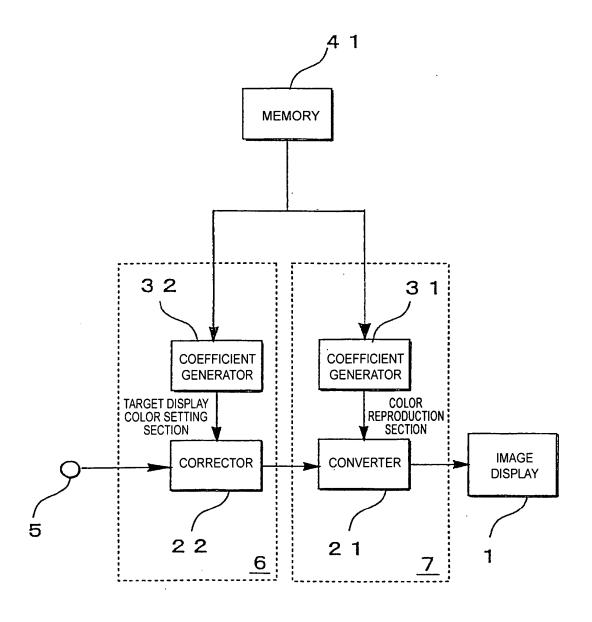
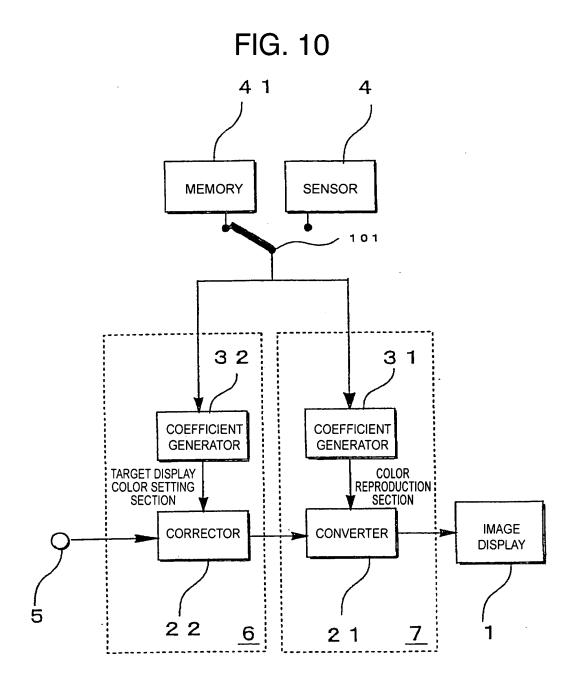


FIG. 9





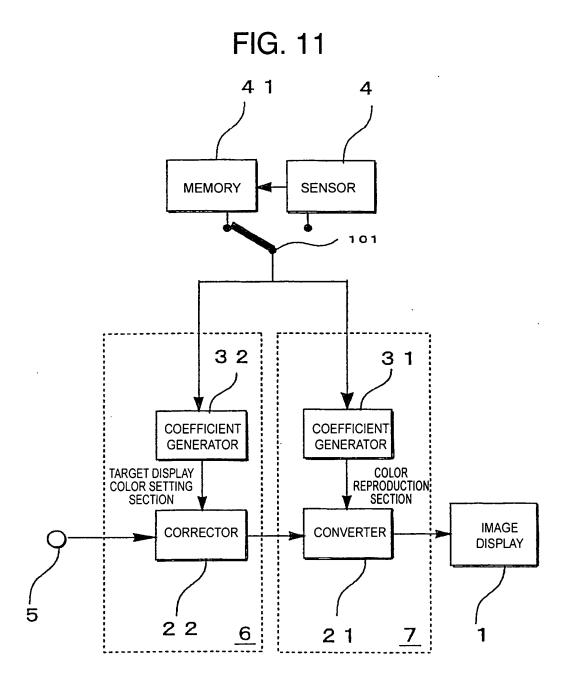


FIG. 12

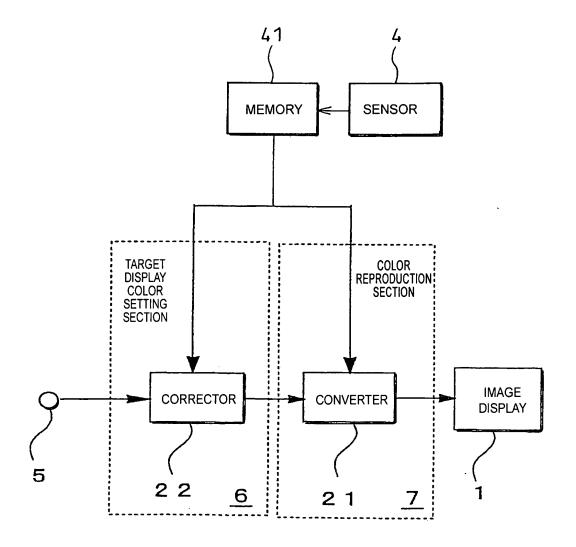


FIG. 13

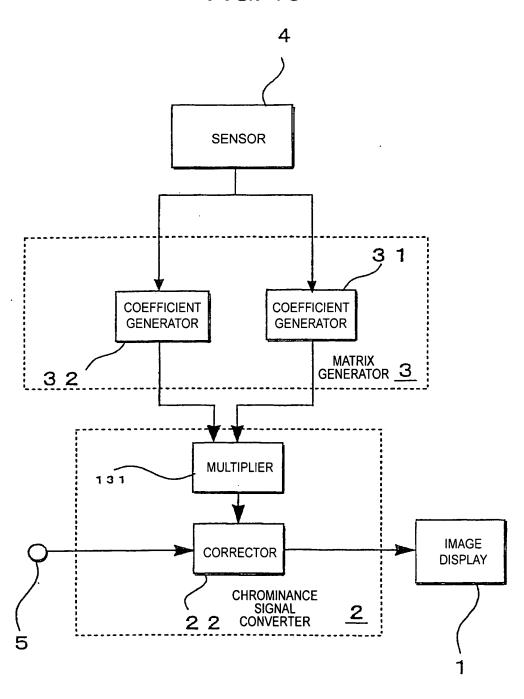
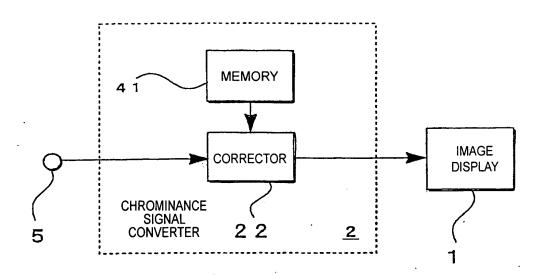


FIG. 14



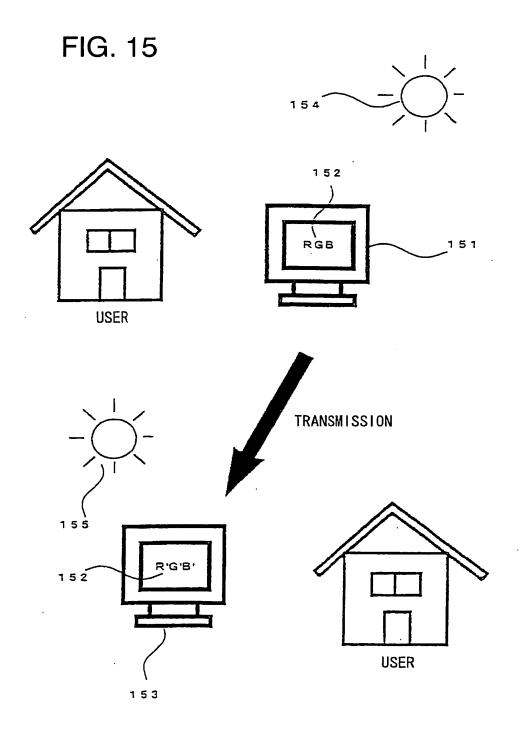
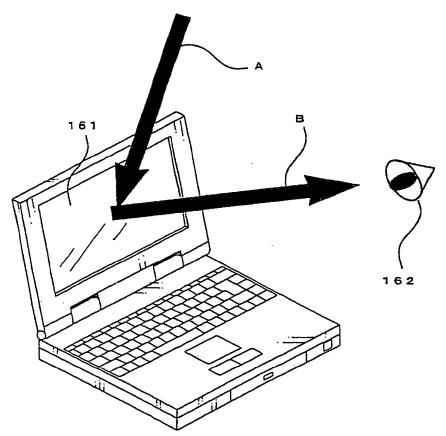


FIG. 16



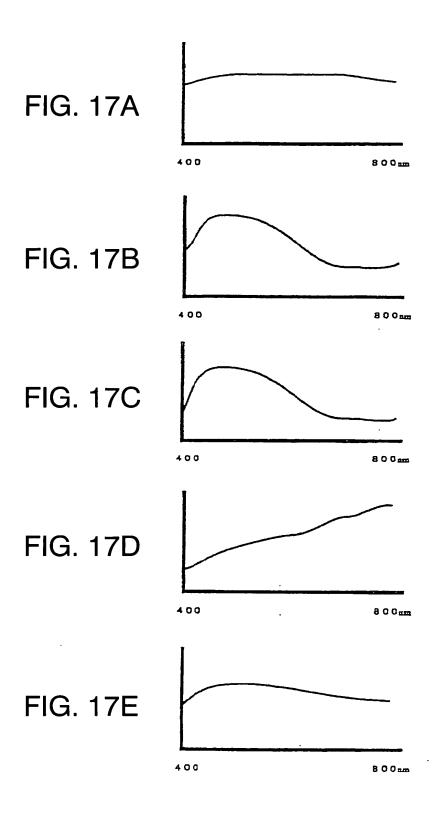
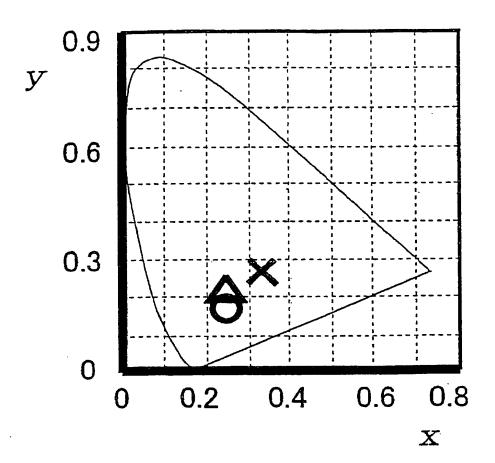


FIG. 18



```
/**************
  transform Program
        for
      colour
    coordinate
********************
#include <stdio.h>
void
main()
{
d[4][3],a[3][3],b[3],c[3],dd[3],r[3][3],kk[3][3],ss,sss;
        int
                i, j, k;
        /* input x & y of RGBW */
       printf("INPUT RGB and White\n");
        printf("Rx Ry Gx Gy Bx By Wx Wy\n".);
        scanf("%f %f %f %f %f %f %f %f", &d[0][0],&d[0][1]
                                       , &d[1][0],&d[1][1]
                                       , &d[2][0],&d[2][1]
                                       , &d[3][0],&d[3][1]);
/*
        d[0][0] = 0.67;
        d[0][1] = 0.33;
        d[1][0] = 0.21;
        d[1][1] = 0.71;
        d[2][0] = 0.14;
        d[2][1] = 0.08;
        d[3][0] = 0.31;
        d[3][1] = 0.316;
*/
```

```
/* calculate z from x & y */
for(i = 0; i < 4; i++){
        if((d[i][0] + d[i][1]) > 1.0){
            d[i][2] = 0.0;
        }
        d[i][2] = 1.0 - d[i][0] - d[i][1];
}

printf("MATRIXYn");
for(i = 0; i < 3; i++){
    printf("Yt");
    for( j = 0; j < 3; j++){
        printf("X5.3fYt",d[i][j]);
    }
    printf("Yn");
}</pre>
```

```
/* caluculate matrix */
  int i1, i2, j1, j2;
  for(i = 0; i < 3; i++){
     i1 = i + 1;
     i2 = i + 2;
      if (i1 > 2) i1 = 0;
      if (i2 > 2) i2 = i2 - 3;
    for(j = 0; j < 3; j++){
      j1 = j + 1;
      j2 = j + 2;
      if (j1 > 2) j1 = 0;
      if (j2 > 2) j2 = j2 - 3;
      a[i][j] = d[i1][j1]*d[i2][j2] - d[i1][j2]*d[i2][j1];
    }
  }
/* calculate of BUNBO */
for(i = 0; i < 3; i++){
  b[i] = 0;
  for(j = 0; j < 3; j++){
    b[i] = a[i][j] * d[3][j] + b[i];
  }
}
```

```
/* MATRIX */
for(i = 0; i < 3; i++){
  for(j = 0; j < 3; j \leftrightarrow){}
    a[i][j] = a[i][j] / b[i];
    r[i][j] = a[i][j];
    if(i = j){
        kk[i][j] = 1.0;
    } else {
        kk[i][j] = 0.0;
    }
  }
/* INVERSE HATRIX */
for(i = 0; i < 3; i++){
 for(j = 0; j < 3; j++){
    dd[j] = a[j][i];
    a[j][i] = 0.0;
  }
  a[i][i] = 1.0;
  for(j = 0; j < 3; j++){}
    c[j] = a[i][j] / dd[i];
 for(j = 0; j < 3; j++){
    for(k = 0; k < 3; k++){
      a[j][k] = a[j][k] - c[k]*dd[j];
 . }
 }
 for(j = 0; j < 3; j++){
    a[i][j] = c[j];
 }
}
```

```
/* SEIKIKA */
ss = a[1][0] + a[1][1] + a[1][2];
sss = r[1][0] + r[1][1] + r[1][2];
for(i = 0; i < 3; i++){
  for(j = 0; j < 3; j++){
    a[i][j] = a[i][j] / ss;
    r[i][j] = r[i][j] / sss;
}
```

```
/* result */
       printf("original data\u00e4n");
       for(i = 0; i < 4; i++){
         printf("\t");
         for(j = 0; j < 3; j++){
               printf("%7.5f ",d[i][j]);
         printf("\f");
       }
       printf("MATRIX\n");
       for(i = 0; i < 3; i++){
         printf("\f");
          for(j = 0; j < 3; j++){
               printf("%7.5f ",r[i][j]);
          }
         printf("\f");
       printf("INVERCE MATRIX#n");
       for(i = 0; i < 3; i++){
         printf("\f");
          for( j = 0; j < 3; j++){
               printf("%7.5f ",a[i][j]);
         printf("\n");
        for(i = 0; i < 3; i++){
          for(j = 0; j < 3; j++){
           kk[i][j] = a[i][0]*r[0][j] + a[i][1]*r[1][j] + a[i][2]*r[2][j];
          } ·
        }
       printf("KAKEZAN\n");
        for(i = 0; i < 3; i++){}
          printf("\f");
          for(j = 0; j < 3; j++){
               printf("%7.5f ",kk[i][j]);
          }
         printf("\f");
        }
}
```

FIG. 25

